

WHAT IS CLAIMED IS:

1. An image pickup apparatus in which a pixel area including a plurality of pixels each having a photoelectric conversion portion and a common output  
5 portion for sequentially amplifying and outputting signals from the plurality of pixels included in said pixel area are formed on a single semiconductor substrate, said apparatus comprising:

a power supply unit for effecting power supply  
10 control of said common output portion independently of control on power supply to said pixel area; and

a control circuit for effecting control to supply no power to said common output portion in a predetermined period after starting photo charge  
15 accumulation in said photoelectric conversion portion and supply power to said common output portion before the end of a photo charge accumulation period in said photoelectric conversion portion.

20 2. The image pickup apparatus according to claim 1, wherein said control circuit variably controls the period during which no power is supplied to said common output portion.

25 3. The image pickup apparatus according to claim 1 or 2, wherein said power supply unit is formed on said single semiconductor substrate.

4. An image pickup apparatus in which a pixel area including arrangement of a plurality of pixels each having a photoelectric conversion portion and a common output portion for sequentially amplifying and outputting signals from the plurality of pixels included in said pixel area are formed on a single semiconductor substrate, said apparatus comprising:

a power supply unit for supplying a first power level and a second power level lower than said first power level to said common output portion; and

a control circuit for effecting control to supply power of said second power level to said common output portion in a predetermined period after starting photo charge accumulation in said photoelectric conversion portion and supply said first power level to said common output portion before the end of a photo charge accumulation period in said photoelectric conversion portion.

5. The image pickup apparatus according to claim 4, wherein said control circuit variably controls the period during which the second power level is supplied to said common output portion.

6. The image pickup apparatus according to claim 4 or 5, wherein said power supply unit is formed on said single semiconductor substrate.